

Department of Examination, Sri Lanka

EXAMINATION FOR THE AMATEUR RADIO OPERATORS' CERTIFICATE OF PROFICIENCY ISSUED
BY THE DIRECTOR GENERAL OF TELECOMMUNICATIONS OF SRI LANKA –JULY 1998
(ADVANCED CLASS)

Licensing Conditions, Operating Practices and Procedures

Two hours

Index No.

*Answer all questions on this paper itself.
Pick out the correct answer and underline it.*

1. The 'Golden rule' in Morse Telegraphy is
(a) keep at 12 WPM. (b) never send faster than a person can receive.
(c) send slower than a person can receive. (d) use maximum speed on the keyer.
2. Which of the following bands are used by Sri Lanka Amateur on a secondary basis?
(a) 1.8 MHz. (b) 10.1 – 10.150 MHz (c) 14 – 14.350 MHz. (d) 21.0 – 21.450 GHz.
3. Fast scan TV transmissions are permitted on
(a) 14 MHz. (b) 21 MHz. (c) 144 MHz. (d) 10 GHz.
4. The bandwidth of data transmission should be kept to that of telephony in order to
(a) reduce self oscillation. (b) reduce transmitter power.
(c) help demodulation. (d) conserve bandwidth.
5. When using voice which of the following transmissions will occupy the largest bandwidth
(a) SSB. (b) FM. (c) PM. (d) AM.
6. A small ferrite bead is sometimes put on a transistor lead. Its purpose is to
(a) space the transistor above the printed circuit board.
(b) give a matching to 50 Ohm.
(c) screen the lead.
(d) prevent to parasitic oscillation.
7. In telegraphy "WX" stands for
(a) How many watts. (b) Weather (c) How do you copy. (d) Wife.
8. In telegraphy "XYL" stands for
(a) How many watts. (b) Weather (c) How do you copy. (d) Wife.
9. Having established contact on a calling frequency it is good practice to
(a) stay on the same frequency. (b) protest to all others who are calling.
(c) move to another frequency (d) get others to join on unwanted the same frequency.
10. Which one of the following must be taken into account to avoid out of band operation when operating on a band edge?
(a) Gain of the antenna. (b) Bandwidth of the emission.
(c) The mode of emission. (d) V.S.W.R. of transmitter.

11. The Q-code for *'stand by'* is
 (a) QRX (b) QRS (c) QRL (d) QRN
12. The Q-code for *'affected by static'* is
 (a) QRX (b) QRS (c) QRL (d) QRN
13. The Q-code for *'I am busy'* is
 (a) QRX (b) QRS (c) QRL (d) QRN
14. The Q-code for *'send slowly'* is
 (a) QRX (b) QRS (c) QRL (d) QRN
15. The Q-code for *'change frequency'* is
 (a) QSP (b) QSY (c) QSO (d) QSB
16. The Q-code for *'relay message'* is
 (a) QSP (b) QSY (c) QSO (d) QSB
17. The Q-code for *'fading'* is
 (a) QSP (b) QSY (c) QSO (d) QSB
18. The term XYL means
 (a) kind regards. (b) wife. (c) love and kisses. (d) young lady.
19. The term 73s means
 (a) kind regards. (b) wife. (c) love and kisses. (d) young lady.
20. The term 88 means
 (a) kind regards. (b) wife. (c) love and kisses. (d) young lady.
21. The term YL means
 (a) kind regards. (b) wife. (c) love and kisses. (d) young lady.
22. The term WX stands for
 (a) how do you copy. (b) weather. (c) to repeat. (d) whether
23. The term 'DE' in CW stands for
 (a) dear. (b) declare. (c) this is (d) decided.
24. The abbreviation KN on CW means
 (a) do not interrupt. (b) invitation to transmit.
 (c) end of transmission . (d) end of message.
25. The abbreviation VA on CW means
 (a) do not interrupt. (b) invitation to transmit.
 (c) end of transmission . (d) end of message.
26. The *'silent key'* means
 (a) the key does not get keyed. (b) use of a BUG key.
 (c) use of an electronic key. (d) a term for death of a person.

27. The suffix when operating from a yacht is
(a) /AM (b) /MM (c) /M (d) /P
28. Providing prior authority had been obtained to operate from a different address the suffix to be used should be
(a) /P (b) /A (c) /T (d) /C
29. Phone patched traffic is defined as
(a) telephone messages transmitted over amateur radio.
(b) telephone conversation recorded and relayed over amateur radio.
(c) tapping telephone traffic.
(d) message transmitted and received by the interconnection of amateur radio equipment to a public or a private telephone network.
30. A Frequency Synthesizer can generate radiation unless
(a) the control circuits are well screened. (b) the digital circuits are in a plastic enclose.
(c) the output is shorted to ground. (d) none of these.
31. When connecting a QSO on VHF using F3E the length of an over should be
(a) any length of time without further identification.
(b) no longer than 2 minutes.
(c) no longer than 15 minutes.
(d) any length of time with identification at least every 5 minutes.
32. The station can be closed down at any time by
(a) a radio user experiencing interference.
(b) a demand from a person acting under authority of the licensing authority.
(c) a demand from a neighbor experiencing interference to his TV reception.
(d) a demand from an amateur occupying the same frequency band.
33. The maximum power supplied to the antenna on HF for advanced class license holders
(a) 1000 watts. (b) 500 watts. (c) 250 watts. (d) 100 watts.
34. SSB suppressed carrier is denoted
(a) A3E (b) F3E (c) R3E (d) J3E
35. Double side band full carrier is denoted
(a) A3E (b) F3E (c) R3E (d) J3E
36. The call sign for India is
(a) VE. (b) VU. (c) VK. (d) VP.
37. The call sign for Canada is
(a) VE. (b) VU. (c) VK. (d) VP.
38. The call sign for Bermuda is
(a) VE. (b) VU. (c) VK. (d) VP.
39. The call sign for Australia is
(a) VE. (b) VU. (c) VK. (d) VP.

40. Morse telegraphy using on/off keying without modulation is designed as
 (a) A1A. (b) J3E. (c) F3E. (d) R3E
41. Single Side band without carrier is designed as
 (a) A1A. (b) J3E. (c) F3E. (d) R3E
42. Single Side band with reduced carrier is designed as
 (a) A1A. (b) J3E. (c) F3E. (d) R3E
43. The purpose of frequency response limiting below 300 Hz and above 3400Hz is to
 (a) produce a natural sounding signal. (b) make it easier to tune in the signal on a receiver.
 (c) conserve the frequency spectrum. (d) restrict the power consumption of the transmitter.
44. An Amateur station is located about half a kilometer from the boundary of an airport. The antenna system should be erected so that
 (a) it does not exceed 15 meters from the ground.
 (b) it cannot be seen from the air.
 (c) it does not exceed 15 meters from roof of the building , housing the station.
 (d) it is within the building, housing the station.
45. An SSB transmission is picked up on a nearby hi-fi system when CDs are played. What would be the likely cure?
 (a) Fit a ferrite ring in the speaker leads.
 (b) Fit a low value bypass capacitor across the speaker terminals.
 (c) Fit a ferrite ring in the speaker leads close to the hi-fi system.
 (d) Fit a ferrite ring in the center of the speaker leads.

Answers

1. b 2. b 3. d 4. a/d 5. b 6. d 7. b 8. d 9. c 10. b
 11. a 12. d 13. c 14. b 15. b 16. a 17. d 18. b 19. a 20. c
 21. d 22. d 23. c 24. b 25. d 26. d 27. b 28. b 29. d 30. a
 31. d 32. a 33. a 34. d 35. a 36. b 37. a 38. d 39. c 40. a
 41. b 42. d 43. a 44. 45.